Effects-Based Acquisition

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World Wide Chemical Conference
Fort Leonard Wood, MO

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Overview

- Effects – Based Acquisition
- Capabilities To Warfighters
- OIF Quick Look

Effects-Based Operations

Objective-

Tell Commanders at All Levels What Objectives and Outcomes to Achieve-

Not How to Achieve Them

Coordinated Set of Actions Directed at Shaping Behaviors and Outcomes

Effects-Based Operations

Basic Tenets

- **Three Potential Increases in Military Efficiency**
  - **New Technologies and Old Tactics**
  - **New Technologies and Network Centric Ops**
  - **New Technologies and Network Centric Ops**

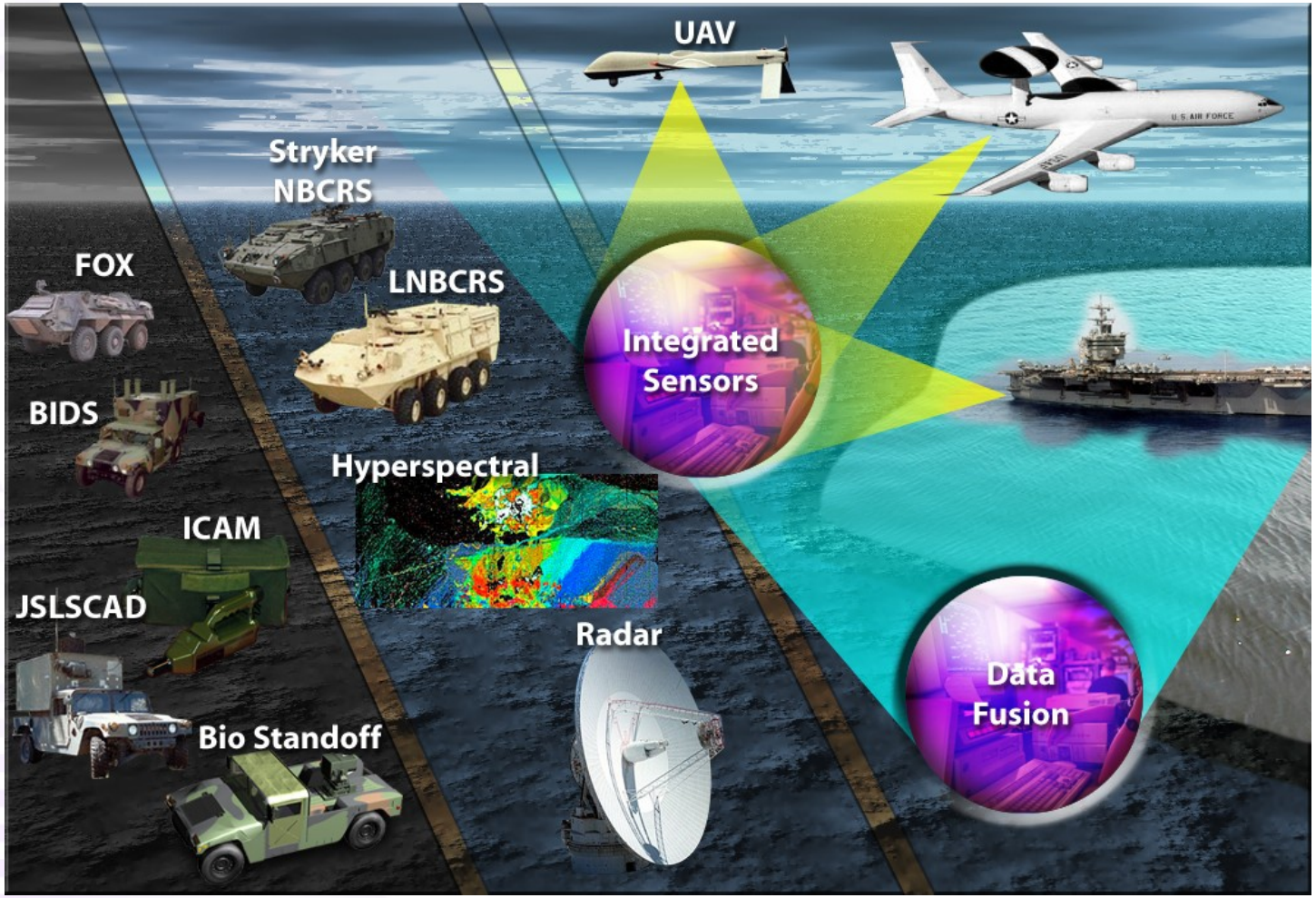
Applied to Effects- Based Operations

So What?

- Transformational
  - Network Centric
    - System of System Solutions

EFFECTS-BASED ACQUISITION

Network Centric Approaches



Platform-Centric → Multi-Mission → Network-Centric

Sensors Are Transparent – Information is Apparent – Timely, Effective, Reliable, Life-Saving Information

Effects – Based Acquisition ORGANIZATION

Chem/ Bio Defense Program Acquisition Organizations

Defense Acquisition Executive (USD-ATL)

Army Acquisition Executive (ASA-ALT)

Joint Program Executive Officer

Joint Program Managers

Requirements

Joint Requirements Office J-8

Science & Technology

Defense Threat Reduction Agency - Chem/ Bio Directorate

Test & Evaluation

Test & Evaluation Executive (DUSA-OR)

OSD Oversight

ATSD (NCB)

DATSD (CB)

Joint Doctrine & Training

Joint Staff

US Army Chemical School

P.L. 103-160

Effects-Based Acquisition-Organization
Some Outcomes

- **Joint Requirements Office**
  - Accelerated Requirements Process
  - Baseline Assessment and “Gap” Analysis
  - Integrated Concepts
- **Joint S&T Executive**
  - Aligning S&T Program with Development Programs
  - Aligning ACTDs with Transition Requirements/ Joint Capabilities Requirements
- **Joint Combat Developer**
  - Joint Training/ Training Tasks
  - Joint Concepts and Training Materials
  - TTP’s for Urgent Requirements

Joint Programs Executive Office For Chemical And Biological Defense

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AAE

JPEO-CBD

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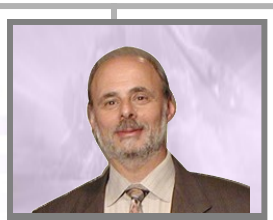

JPM Collective Protection
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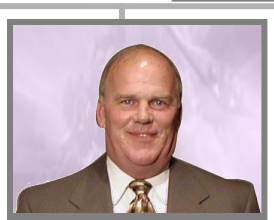

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JPM Decontamination
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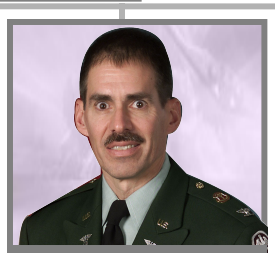

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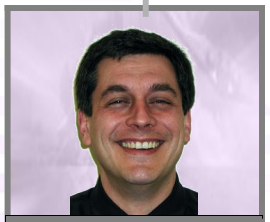

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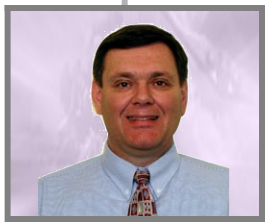

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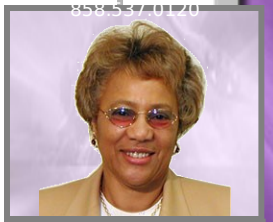

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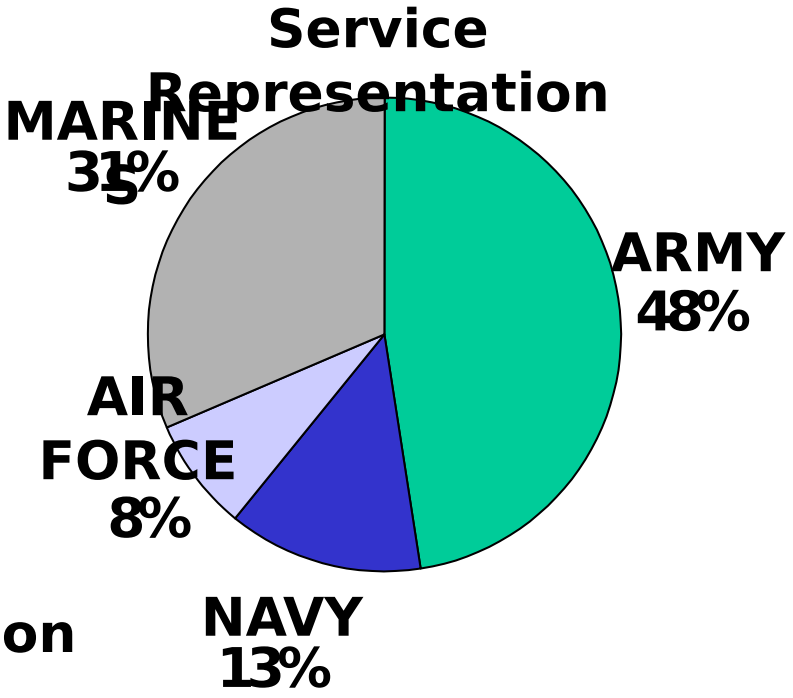
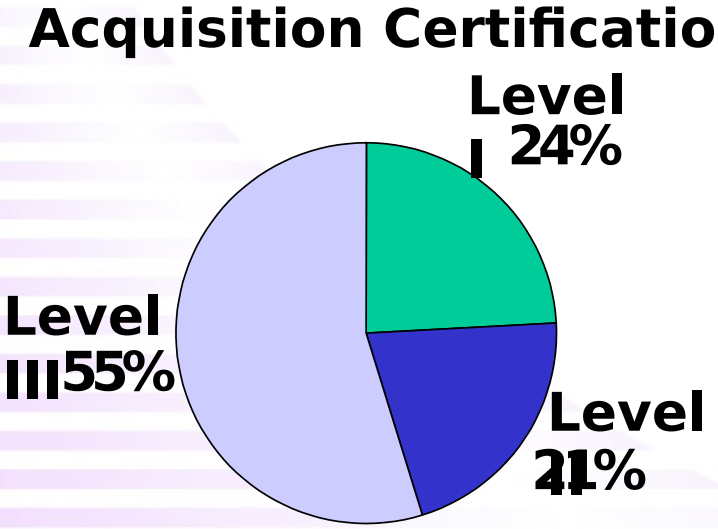
A JOINT Program Executive Office





Effects-Based Acquisition-Organization
Some Outcomes

Joint PEO

- **PM's Organized Functionally**
  - **Total Life-Cycle Responsibility**
  - **Aligned with JRO Operational Attributes**
  - **Critical Technologies Assessment**

- **Acquisition Strategies**
  - **Evolutionary Acquisition- Spiral Development**
    - **JSFDS**
    - **JWARN**
    - **JSLSCAD**
    - **JBAIDS**
  - **System of Systems**
    - **Guardian**
  - **Network Centric**
    - **Multi-Mission Sensors**

Effects-Based Acquisition- Organization

Organization/ Process - Outcomes

- **Business Management**
  - **Single Accounting System- Auditable**
  - **Consolidation of Financial Transition to DFAS**
- **Information Management**
  - **Established Integrated Digital Environment**
  - **950+ Users (and Counting)**
- **Life-Cycle Management**
  - **Mobility Inventory Control Accountability System (MICAS)**
  - **Developed and Manage Joint Total Asset Visibility Reporting Warehouse**

JPEO-CBD Joint Project Managers

Information Systems

San Diego, CA

CAPT TOM O'KEEFE (NAVY)

NBC Contamination Avoidance

Edgewood, MD

COL DON BURNETT (ARMY)

Chemical Biological Medical Systems

Frederick, MD

COL STEPHEN BERTÉ (ARMY)

Collective Protection

Washington DC

MR STAN ENATSKY (NAVY)

Individual Protection

Quantico, VA

MR DOUG BRYCE (USMC)

Decon

San Antonio, TX

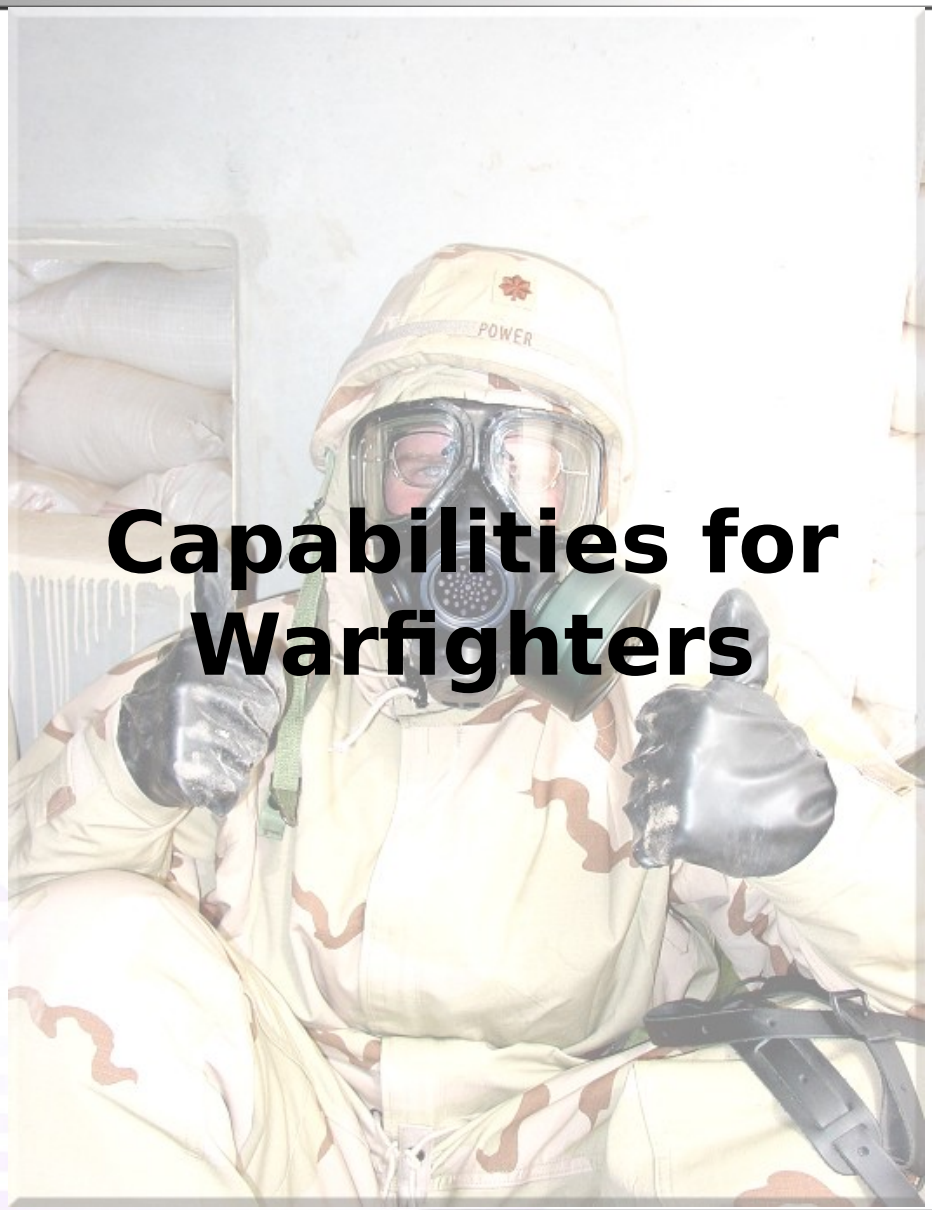
COL AL BURNETT (USAF)

Guardian

Falls Church, VA

COL CAMILLE NICHOLS (ARMY)

Effects-Based Acquisition
Outcomes

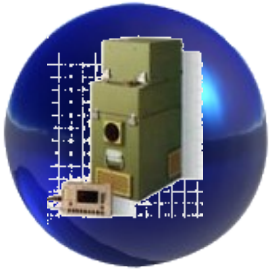


Capabilities for Warfighters

Accelerating Technology Transition Operation Iraqi Freedom

New Capabilities

Fox TICs Data Chip



Chemical Biological Protective Shelter CBPS

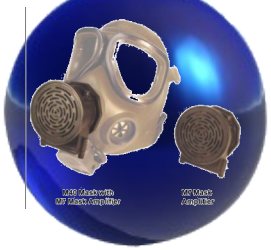
Special Purpose Automatic Chemical Agent Alarm (ACADA)

Navy Bio Detector

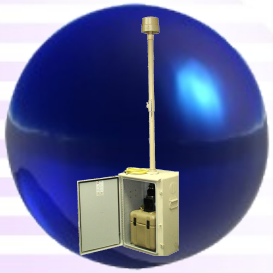
Decontamination System (Karcher)

500+ Special Fit Protective Masks

1600+ Special Fit Protective Suits



M40 Mask Voicemitter

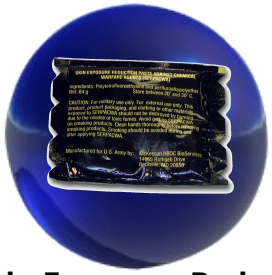


Dry Filter Unit 2000 (DFU)

Chemically Protected Deployable Medical System (CP DEPMEDS)

Reactive Skin Decontamination Lotion (RSDL)

Antidote Treatment, Nerve Agent Autoinjector (ATNAA)



Skin Exposure Reduction Paste Against Chemical Warfare Agents (SERPACWA)

Joint Project Manager Contamination Avoidance

- Contractor Logistic Support – OIF
  - Fox/ BIDS
  - 95%+ Operational Readiness Rate
- Fielded - Environmental Data Chips- Fox
- Fielded - Bio Detectors for US Navy Ships in OIF
- Fielded - Bio Detectors Throughout SWA
- Fielded - Bio Detectors for US cities for Project Bio Shield (Under DHS)
- Delivered Chem/ Bio Detectors to Joint Service Installations Pilot Program – ahead of schedule
- Fielded Two New BIDs Platoons- ahead of schedule
- Fielded 24 M56 Coyote Obscuration Systems
- Obtained OSHA Certification for Dry Filter Units

Joint Project Manager Collective Protection

- **Fielded 64 Chemical/ Biological Protection Shelters**

- **Fielded 6 Collectively Protected Medical Systems for Field Hospitals**

Joint Project Manager Individual Protection

- **Over 500 Hard-to-fit Masks- < 60 Days**
- **Improved M40 Acoustic Design and Voice Mitter**
- **Over 1600 Special Order JSLIST Chemical Protective Suits- <45 Days**
- **Joint Service NBC Assessment Program**
  - **Recovers IPE for Training From DRMO**

Joint Project Manager Decontamination

- **Fielded over 120,000 M100 Sorbent Decon Systems**
  (Replaces M11/ M[illegible]paratus)

- **2003 Packard Award Winner for Decon Systems/ Decontaminates**

Joint Project Manager Chem/ Bio Medical Systems

- **Fielded Over 100,000 Antidote Treatment Nerve Agent Autoinjectors (ATNAA) (Replaces Mark I Kit)**
- **Fielded Anthrax and Smallpox Vaccines**
- **Received FDA Approval and Fielded**
  - **Pyridostigmine Bromide (PB)**
  - **Skin Exposure Reduction Paste Against Chemical Warfare Agents (SERPACWA)**
  - **Reactive Skin Decontamination Lotion (RSDL)**
- **Awarded JBAIDS Contract- 3 Year Program Acceleration Using Spiral Development**
- **Critical Reagents Program**
  - **Accelerated Developing Mulitplexed Assays- Significant O&S Cost Reductions**

Joint Project Manager Information Systems

- **Fielded/ Trained JWARN- OIF**
- **Restructured and Accelerating JWARN Acqui Program**
- **Establishing Software Support Activity**
  - **Technical Architecture**
  - **Accreditation Activity**
  - **Cross-PEO Support**

Joint Project Manager Guardian

- **Established May 03 - FY04 New Start**
- **30 of 32 Civil Support Teams Certified**
- **Full-Rate Production of Analytical Lab System**
- **Developed Acquisition Strategy for Installation Force Protection Program**

Bid and Proposal Timeline

  - **Draft RFP- 30 Oct 2003**
  - **Formal RFP- 30 Nov 2003**
  - **Contract Award- 15 Feb 2003**

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Effects-Based Acquisition
FY04 Outcomes

Major FY04 Fieldings

- Biological Integrated Detection System (BIDS)
- Joint Biological Point Detection System (JBPDS)
- Joint Portal Shield (JPS)
- Joint Warning and Reporting Network (JWARN)
- Anthrax Vaccine Adsorbed (AVA)
- Joint Service Mask Leakage Tester (JSMLT)
- Joint Service Lightweight Integrated Suit Technology – Glove
- Aircrew Eye/Respiratory Protection System (AERP)
- Chemically Protected Deployable Medical System (CP DEPMED)
- Chemical Biological Protection Shelter (CBPS)
- Sorbent Decontamination System (SDS)
- Multi Purpose Decontamination System (MPDS)

12 NEW CAPABILITIES

Major FY04 Solicitations/Contract Awards

Guardian-
Installation Force Protection 1Qtr

JBAIDS Development 1Qtr

JBSDS SDS Phase 2Qtr

JSFDS Option 1 Skin Decon 2Qtr

JSLIST 3Qtr

JBPDS LRIP Phase 3Qtr

Umbrella CLS Contract 4Qtr

Major FY04 Test Events

Biological Triggers	**Technology Readiness Evaluation (TRE)**	**Sep/Oct 03**
Stryker	**Limited User Test (LUT)**	**Sep/Oct 03**
JSMLT	**Multiservice Operational Test and Evaluation (MOT&E)**	**Jan 04**
JOEF	**Early Operational Assessment (EOA)**	
JBAIDS	**May 04**	
	Operational Assessment (OA)	**Aug 04**

Major FY04 Milestone Decisions

Program	Milestone
Smallpox Vaccine	C
JSLIST Footwear	TBD
NBCRV- IAV	C
JEM	B
JSLIST Block 2 Glove	B
JCAD	C
JSLIST Alt Footwear Sys	B
JSFDS – Port/Transport	B
JSFDS – Skin/RSDL	B
Next Generation Oxime	A
JBSDS	C
JBPDS	C
JOEF	B
JSLIST Sock	C
JSMLT	FRP
ARTEMIS	B
JSCESM	C
AAS	B

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Operation Iraqi Freedom
A QUICK LOOK

Operation Iraqi Freedom

- 11 New Capabilities Fielded to All Services
- Positive Initial Feedback
- Chem/ Bio Defense Program After Action Review
  - On-Going
  - Purpose- Improve Material, Tactics, Techniques, Procedures, Identify Shortfalls, New Requirements
  - Joint Effort with Joint Requirements Office & Chemical School
  - Systematic Scientific Survey
    - Engineering Psychologists Develop/ Conduct Survey
    - 2000+ Service Members Surveyed
    - Oct 03 Analysis & Results

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Operation Iraqi Freedom

Quick - Look

Hits

- Protective Suits (JSLIST)
- M40 Masks/ Voicemitter
- Contractor Logistics Support
  - Best Op Readiness Rates in Theater for NBC Recon Systems (FOX)
  - Bio Detection Systems
- FOX "TIC" Chip
- Chem/ Bio Protective Shelters
- Auto Chemical Alarms (ACADA)
- Dry Filter Unit 2000

Misses

- Protective Suits
  - Flame Retardant Variant Required
- M40 Mask Carrying Case
  - Some Want Bigger
- Contractor Logistics Support
  - Doctrine/ Regulation Changes Required
- Auto Chemical Alarms (ACADA)
  - 24/ 7 Varient
  - Vehicle Mounts
  - Batteries
- Decon Solutions
  - DF-200
- No TIC Detectors

Operation Iraqi Freedom Priorities

- Complete Surveys and Analysis
- Joint CB Community Conference
  - Safety Release Issues- Top Priority
    - Conditional Material Release Issues- Convert To Full Material Release
      - Lessons Learned “Improvements”
        - New Starts

Joint Service NBC Defense Program
Joint Program Executive Office
Joint Requirements Office
WARFIGHTERS
Joint Science & Technology
Joint Combat Developer
Joint Test & Evaluation Executive
JOINT VISION... JOINT FOCUS...
JOINT MATERIEL SOLUTIONS

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JPEO Chemical & Biological Defense

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